CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.04/NLR/CSR-6/880/CEMENT/2015-16

Date: 30.06.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. N. Lokanathreddy,** No.05, Kaverinagara, 7th Cross, Kavalbyrasandra, R.T. Nagara Post, Bangalore – 32.
*NAME OF THE WORK	:	Construction of drains and concrete roads in Allalasandra in Ward No.04, BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/YNSD/131/2015-16 Dated: 27.06.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	29.06.2015
PERIOD OF TESTING	:	29.06.2015 to 30.06.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

AE 11-4

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Job No.: CTCE/BBMP/W.No.04/NLR/CSR-6/880/SAND-Gradation/2015-16 : 30.06.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N. Lokanathreddy,** No.05, Kaverinagara, 7th Cross, Kavalbyrasandra, R.T. Nagara Post, Bangalore – 32.
* Name of Work	: Construction of drains and concrete roads in Allalasandra in Ward No.04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/131/2015-16 Dated: 27.06.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 29.06.2015
Date of Testing	: 30.06.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	91.70	90-100	90-100	90-100	95-100
2.36	71.80	60-95	75-100	85-100	95-100
1.18	50.40	30-70	55-90	75-100	90-100
600 Micron	30.80	15-34	35-59	60-79	80-100
300 Micron	15.70	5-20	8-30	12-40	15-50
150 Micron	4.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

AE LJ-4

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.04/NLR/CSR-6/880/AGG/GR/2015-16 : 30.06.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N. Lokanathreddy,** No.05, Kaverinagara, 7th Cross, Kavalbyrasandra, R.T. Nagara Post, Bangalore – 32.
* Name of Work	: Construction of drains and concrete roads in Allalasandra in Ward No.04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/131/2015-16 Dated: 27.06.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 29.06.2015
Date of Testing	: 30.06.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.95	95-100	85-100
20	45.80	30-70	0-20
10	19.10	10-35	0-5
4.75	3.80	0-5	-

AE W-4

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.04/NLR/CSR-6/880/AGG/GR/2015-16 : 30.06.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N. Lokanathreddy,** No.05, Kaverinagara, 7th Cross, Kavalbyrasandra, R.T. Nagara Post, Bangalore – 32.
* Name of Work	: Construction of drains and concrete roads in Allalasandra in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/131/2015-16 Dated: 27.06.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 29.06.2015
Date of Testing	: 30.06.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.30	95-100	85-100
10	31.30	25-55	0-20
4.75	4.30	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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JAS-ANZ

BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.04/NLR/STEEL/2015-16 03.07.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. N. Lokanathreddy,** No.05, Kaverinagara, 7th Cross, Kavalbyrasandra, R.T. Nagara Post, Bangalore – 32.
Name of the work	:	Construction of drains and concrete roads in Allalasandra in Ward No.04, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNSD/131/2015-16 Dated: 29.06.2015
Date of Test	:	03.07.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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Job No.: CTCE/BBMP/W.No.04/NLR/STEEL/2015-16 03.07.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. N. Lokanathreddy,** No.05, Kaverinagara, 7th Cross, Kavalbyrasandra, R.T. Nagara Post, Bangalore – 32.
Name of the work	:	Construction of drains and concrete roads in Allalasandra in Ward No.04, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNSD/131/2015-16 Dated: 29.06.2015
Date of Test	:	03.07.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.04/NLR/CSR-6/880/CUBE/2015-16 06.08.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N. Lokanathreddy,** No.05, Kaverinagara, 7th Cross, Kavalbyrasandra, R.T. Nagara Post, Bangalore – 32.
* Name of the work	: Construction of drains and concrete roads in Allalasandra in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/131/2015-16 Dated: 27.06.2015
* Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day
Sample Received on	: 09.07.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.07.2015	06.08.2015	8.145	478.3	21.26
2	09.07.2015	06.08.2015	8.266	496.2	22.05
3	09.07.2015	06.08.2015	8.303	519.6	23.09

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Job No.: CTCE/BBMP/W.No.04/NLR/CSR-6/880/CUBE/2015-16 17.08.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. N. Lokanathreddy,** No.05, Kaverinagara, 7th Cross, Kavalbyrasandra, R.T. Nagara Post, Bangalore – 32.

* **Name of the work** : Construction of drains and concrete roads in Allalasandra in Ward No.04, BBMP, Bangalore.

* **Reference** : BBMP/AEE/YNSD/131/2015-16 Dated: 27.06.2015

* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 20.07.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.07.2015	17.08.2015	8.255	482.6	21.45
2	20.07.2015	17.08.2015	8.456	530.2	23.56
3	20.07.2015	17.08.2015	8.366	512.3	22.77

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